

***LineUp With Math™* Alignment**
Mathematics Content Standards, Benchmarks and Performance Standards
June 2002

Strand: ALGEBRA**Standard:** Students will understand algebraic concepts and applications.**5-8 Benchmark: Understand patterns, relations, and functions.****Performance Standards: Grade 6**

1. Solve problems involving proportional relationships.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

5. Make generalizations based on observed patterns and relationships.

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

--Predict and plot the relative motion of two or more airplanes on given paths.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

5-8 Benchmark: Represent and analyze mathematical situations and structures using algebraic symbols.**Performance Standards: Grade 6**

1. Solve problems involving proportional relationships.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

5. Demonstrate how changes in one variable affect other variables.

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.

5-8 Benchmark: Analyze changes in various contexts.**Performance Standards: Grade 6**

2. Solve problems that involve change using proportional relationships.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

Strand: MEASUREMENT**Standard:** Students will understand measurement systems and applications.**5-8 Benchmark: Apply appropriate techniques, tools, and formulas to determine measurements.****Performance Standards: Grade 6**

1. Apply various measurement techniques and tools, units of measure, and degrees of accuracy to find accurate rational number representations for length, liquid, weight, perimeter, temperature, and time.

***LineUp With Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.